

The JONES COLORIZER

is first line  
trols for this mixer  
gain, 4) Blue gain, 5)  
6) Channel pedestal.  
pot on the control  
a switch and jack  
This first  
set to key  
pulse gen  
provide  
the t

A	pin 1	clip pedestal	1	red	}
B	pin 2		2	green	
C	pin 3		3	red	}
D	4		4	blue	
E	5	video gain	1	black	}
F	6		2	white	
G	7		3	red	}
H	8		4	yellow	
J	9	pedestal	1	green	}
K	10		2	blue	
L	11		3	black	}
M	12		4	red	
N	13	chroma	1	black	}
P	14		2	orange	
R	15		3	red	}
S	16	(HS)	4	white	
T	17	(R)	1	red	}
U	18		2	brown	
V	19		3	green	}
W	20		4	white	
X	21	G	1	black	}
Y	22		2	green	
Z	23		3	red	}
a	24		4	orange	
b	25	B	1	black	}
c	26		2	blue	
d	27		3	black	}
e	28		4	yellow	
f	29	video gain out		black	}

2+2 HS

R	15	(RHS)	3	red }
S	16	(PN)	4	white }.
T	17	R	1	real }
U	18		2	brown }
V	19		3	green }
W	20		4	white }
X	21	G	1	black }
Y	22		2	green }
Z	23		3	red }
a	24		4	orange }
b	25	B	1	black }
c	26		2	blue }
d	27		3	black }
e	28		4	yellow }
f	29	video gain out	black }	
g	30	pedestal out	brown }	
h	31			orange.
j	32			
k	33			
l	34	+10V		violet/red
m	35	±		yellow/green.

pin A	clip out 1	black
2	B	2 gray
3	C	3 pink
4	D	4 light brown
5	E	5 orange
6	F	+10V + violet
7	H	7 yellow
8	J	8 dark brown
9	K	9 clip in 1 blue
10	L	10 2 red
11	M	11 3 green
12	N	12 4 white

(VB)

(AD)

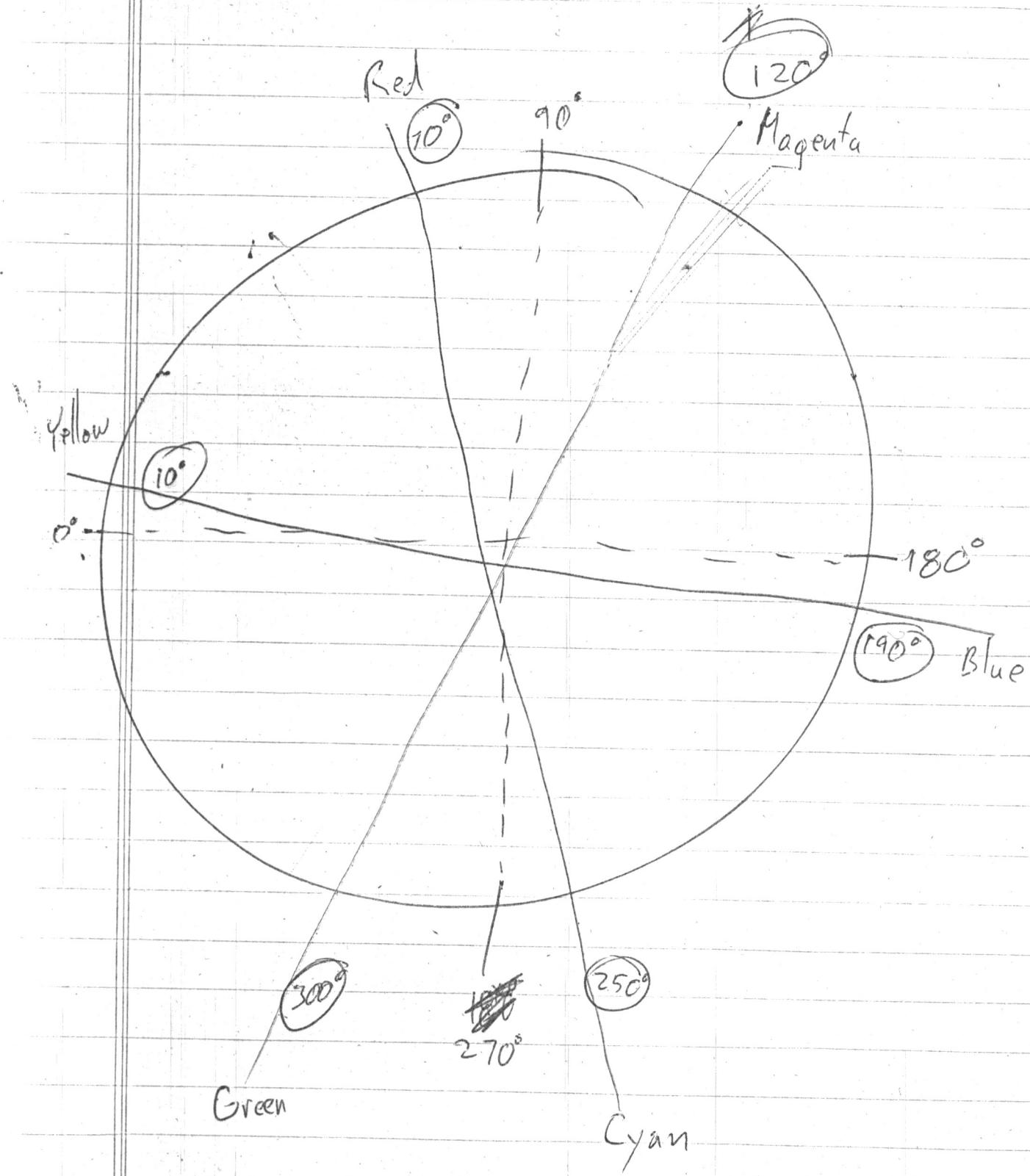
Compos.

Bl.

BF

3.58.

3,579,545 Hz



January 8, '75

Pin	Input 1	Input 2	Input 3	Input 4	Mix	Output	Sync Proc
1							
2							
3	clip 1 pulse out	clip 2 pulse out	clip 3 pulse out	clip 4 pulse out		Unreg. +15vdc	
4							
5							
6	Video 1 IN	Video 2 IN	Video 3 IN	Video 4 IN			
7	Clip 1 Voltage	Clip 2 Voltage	Clip 3 Voltage	Clip 4 Voltage			
8	clip 1 pulse	clip 2 pulse	clip 3 pulse	clip 4 pulse			
9	3.58 Red IN	3.58 Red IN	3.58 Red IN	3.58 Red IN			
10	*#1 Red level Voltage	*#2 Red level Voltage	*#3 Red level Voltage	*#4 Red level Voltage			
11	3.58 Blue in	3.58 Blue in	3.58 Blue in	3.58 Blue in			
12							
13	*#1 Blue level Voltage	*#2 Blue level Voltage	*#3 Blue level Voltage	*#4 Blue level Voltage			
14	3.58 Green in	3.58 Green in	3.58 Green in	3.58 Green in			
15	*#1 Green level Voltage	*#2 Green level Voltage	*#3 Green level Voltage	*#4 Green level Voltage			
16	Pedistal 1 Voltage	Pedistal 2 Voltage	Pedistal 3 Voltage	Pedistal 4 Voltage			
17	Luminance 1 Voltage	Luminance 2 Voltage	Luminance 3 Voltage	Luminance 4 Voltage			
18	Chroma 1 Voltage	Chroma 2 Voltage	Chroma 3 Voltage	Chroma 4 Voltage			
19	out 1	out 2	out 3	out 4			
20							
21							
22							

**BUSES**

Blanking from pin 17 out put board

Output A  
Output B  
3.58  
Red out  
Blue out  
Green out  
BoFo IN  
Sync IN  
Blanking  
Video in  
Unreg. +15vdc  
UNR. -15

Sync Proc  
Pin 11 (3.58) To output board

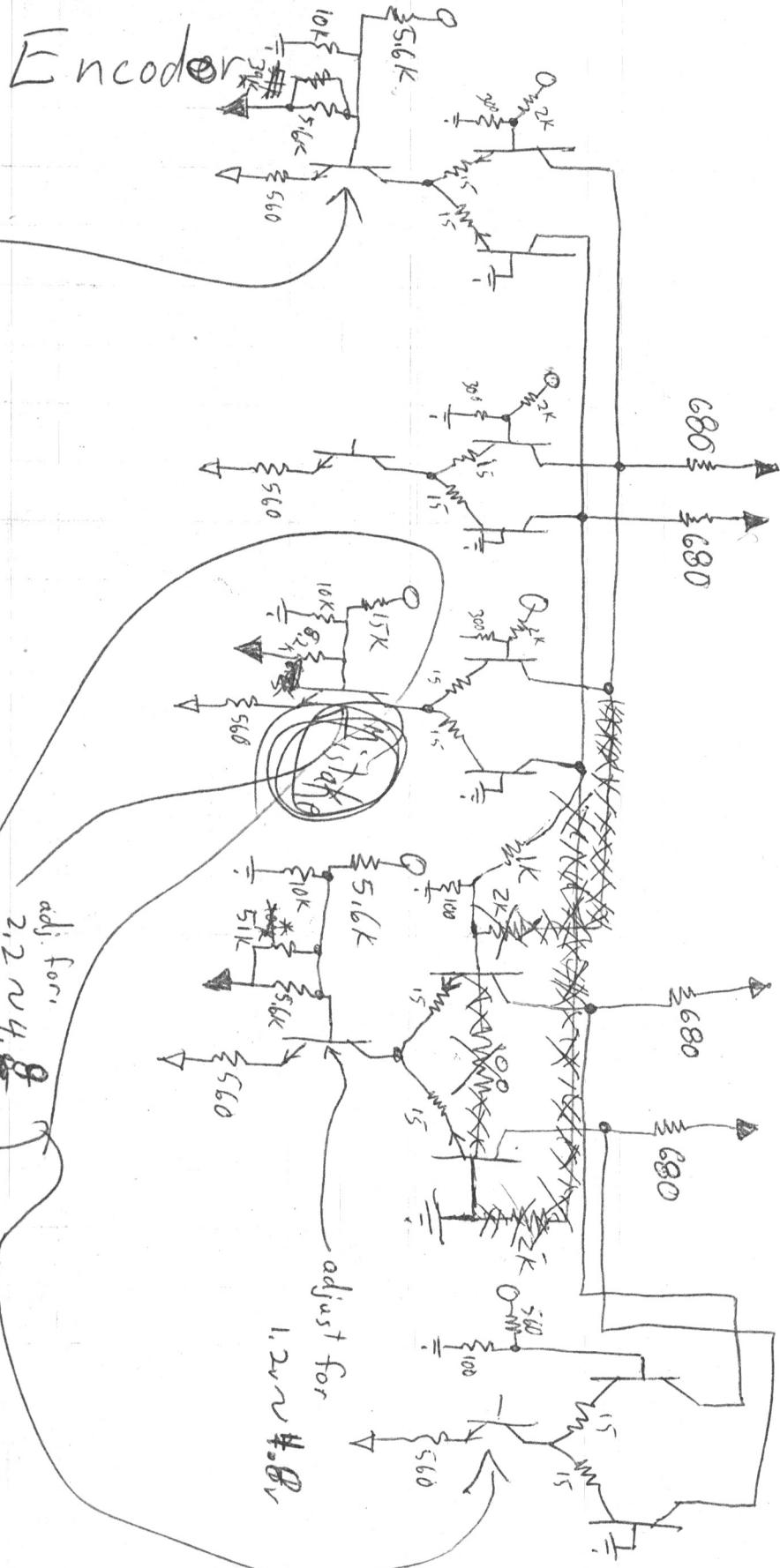
Blanking (Sync) to pin 15 of output board

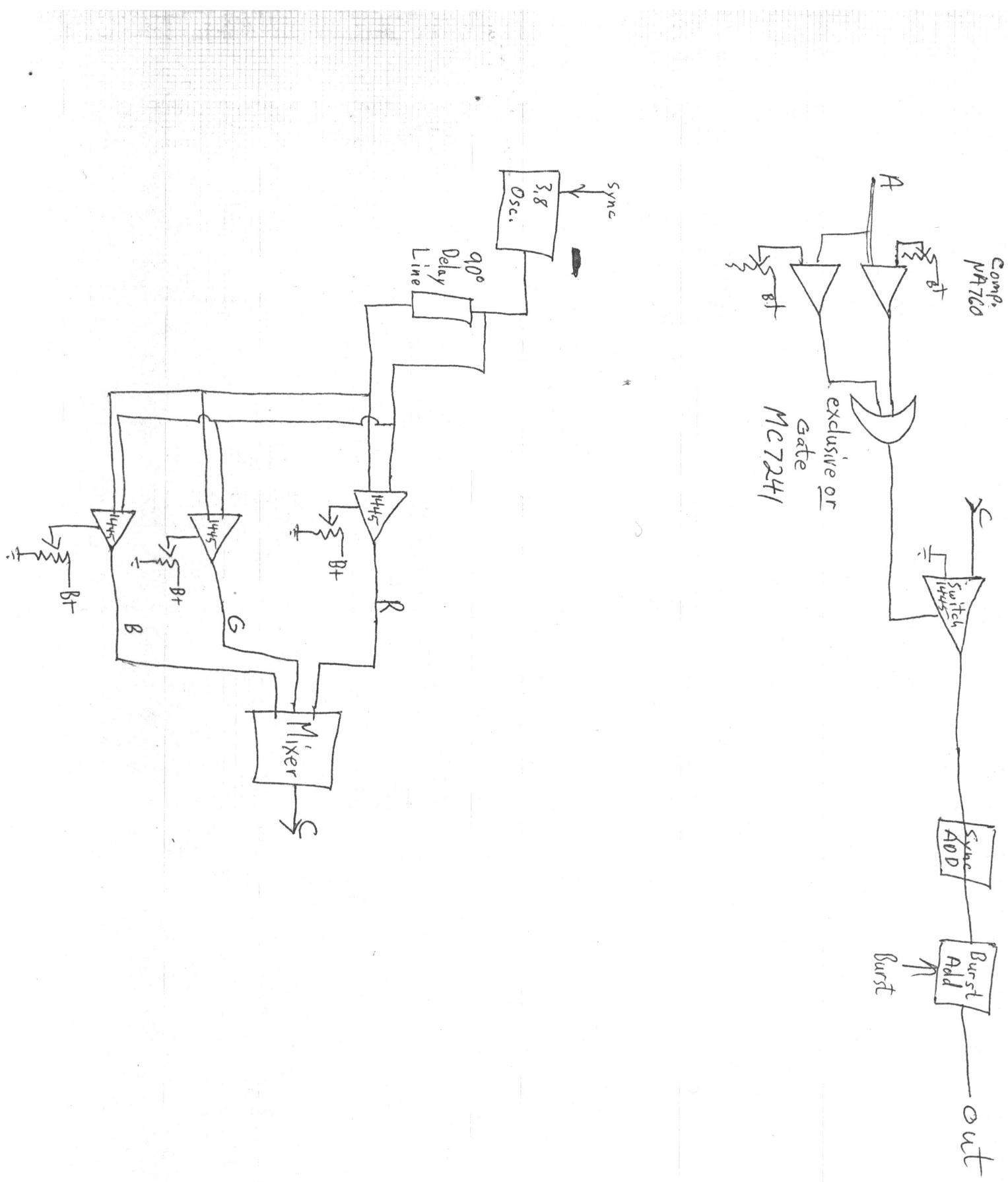
Blanking IN to pin 17 of output board (Blanking)

# Colorizer as of 1/8/75

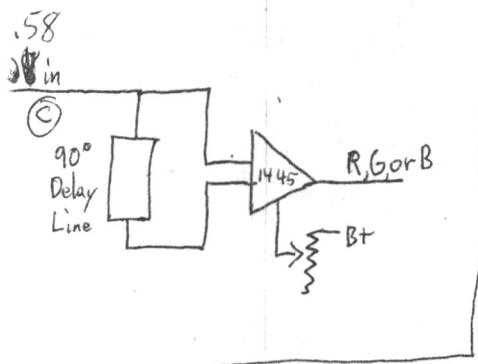
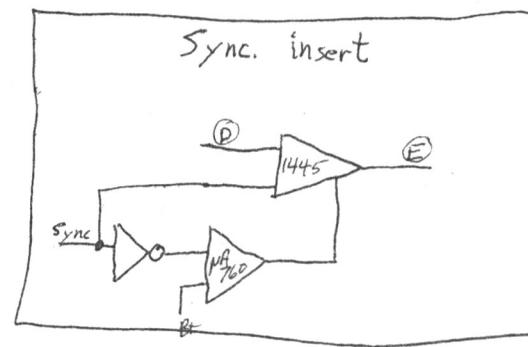
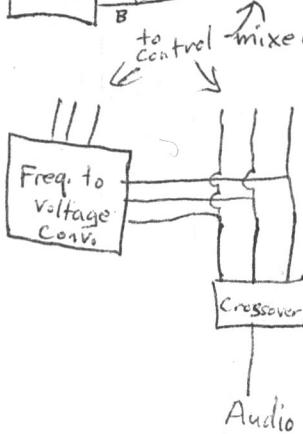
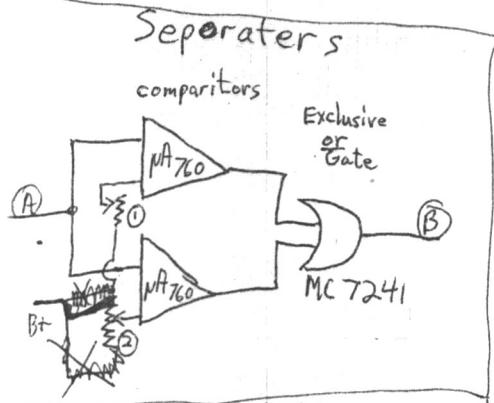
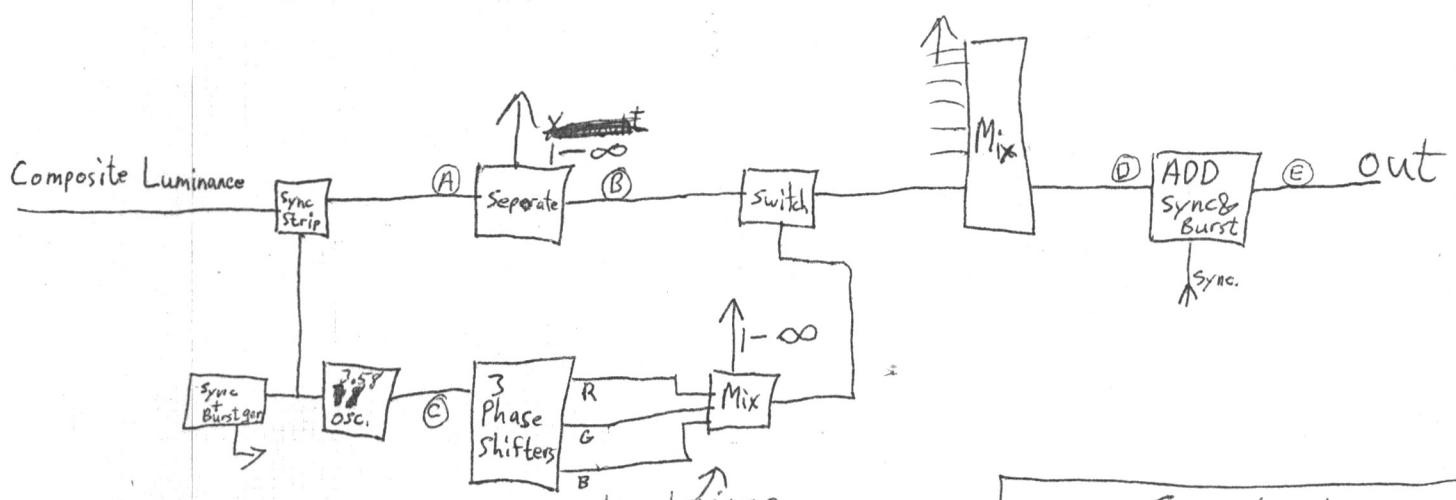
in	INPUT Boards 1 ~ 4	MIX Board	Output Board	Sync Proc
1	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$
2	unreq. + 15	unreq. + 15	unreq. + 15	unreq. + 15
3	clip pulse out			$+ 5 \text{ Buss}$
4	regulated +12	From Sync	Board	
5	<del>Blanking from pin 5 of output Board</del>	<del>Sync</del>		$+ 5 \text{ Buss}$
6	Video IN	$\frac{1}{\text{---}}$		3.58 from Panel
7	clip Voltage	VID out	Output A	Top in 11 output board 3.58
8	clip pulse in	$\frac{1}{\text{---}}$	<del>Ped.</del>	$\frac{1}{\text{---}}$
9	Red from Sync Board	VID 1 in	Output B	to pin 19 input Board RED
10	Red level Voltage	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$	to pin 11 input Board Blue
11	Blue from Sync Board	Video <del>Out</del> 2 in	3.58 from Sync Board	to pin 14 of input Board Green
12	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$
13	Blue level Voltage	VID 3 in	B.F. from Sync Board	B.F. from Panel
14	Green from Sync Board	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$	to pin 13 output board B.F.
15	Green level Voltage	VID 4 in	Sync from Sync Board	Composite Sync from Panel
16	Pedistal Voltage	$\frac{1}{\text{---}}$ at Red	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$
17	Luminance level Voltage	<del>VID 2 in</del>	Blanking from Sync Board	to pin 15 output board Sync
18	chroma level Voltage	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$	Blanking from Panel
19	Outputs	<del>Gain</del>	Video from Mixer	to pin 7 of output board Blanking
20	$\frac{1}{\text{---}}$		$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$
21	UNREG. -15	unreq. -15	unreq. -15	unreq. -15
22	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$	$\frac{1}{\text{---}}$

4/13/75  
Dave Jones





# Complete Control Colorizer

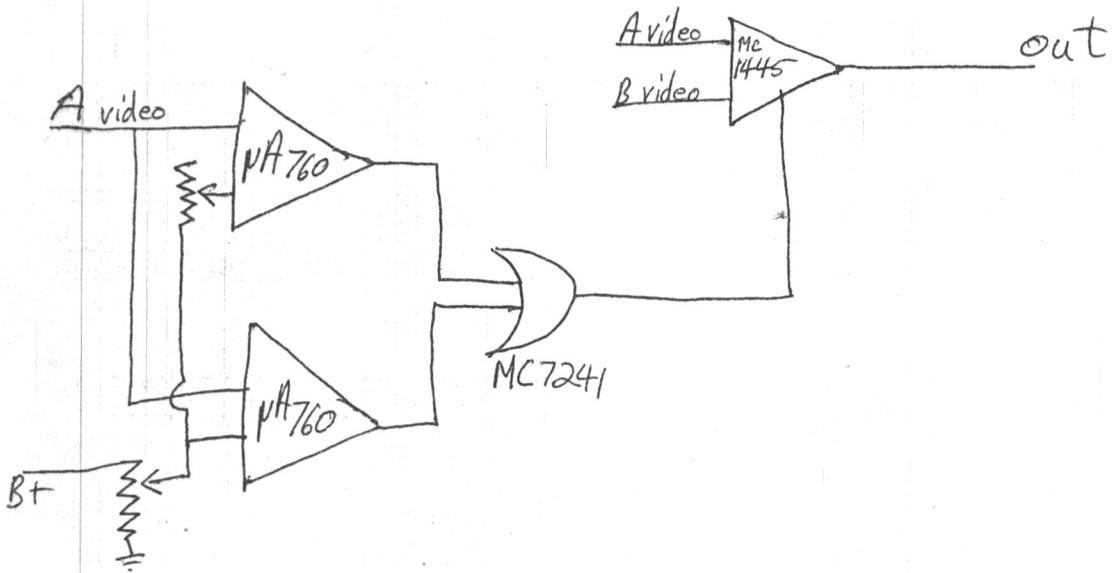


an audio input can control the mixture of colors by frequency change or volume change

Controls ① and ② give you complete control over the size and placement of the grey levels

The R,G,B, mixers will give you complete control over the color added to each level

## Selective level Keyer

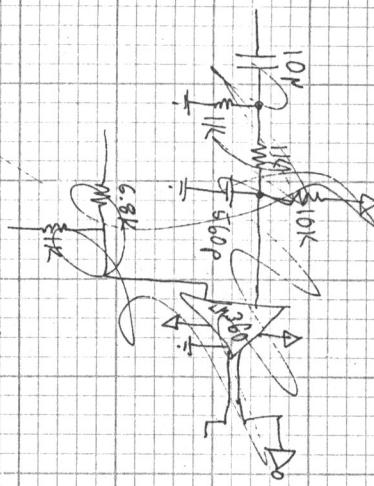
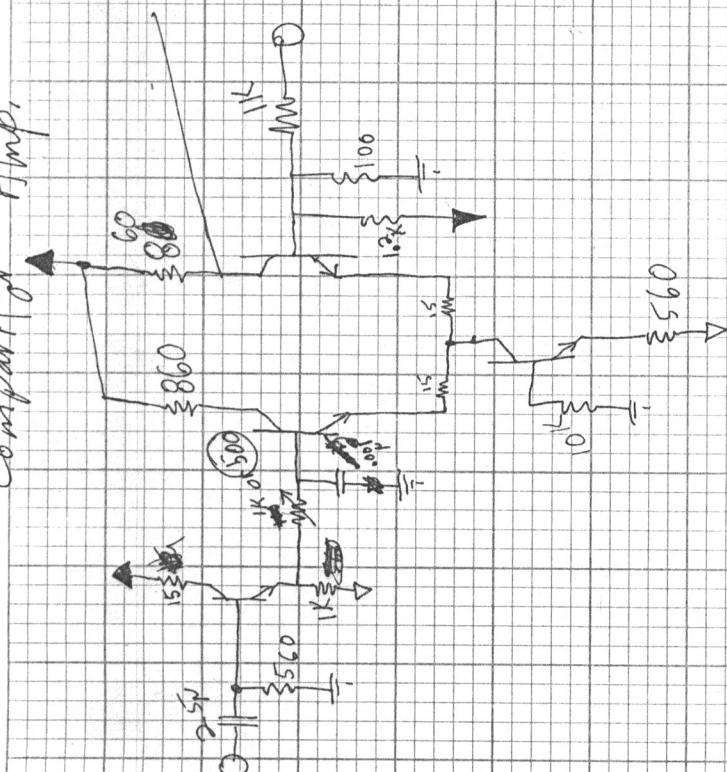


~~Most Keyers place the second image~~

Keyers only allow you to key over a certain level of the video or higher, for example over anything white or anything light gray or brighter or med. gray or brighter

~~This~~ this Keyer allows you to be selective for example only on 1 shade of gray or everything except black and white etc.

Comparative Morph.



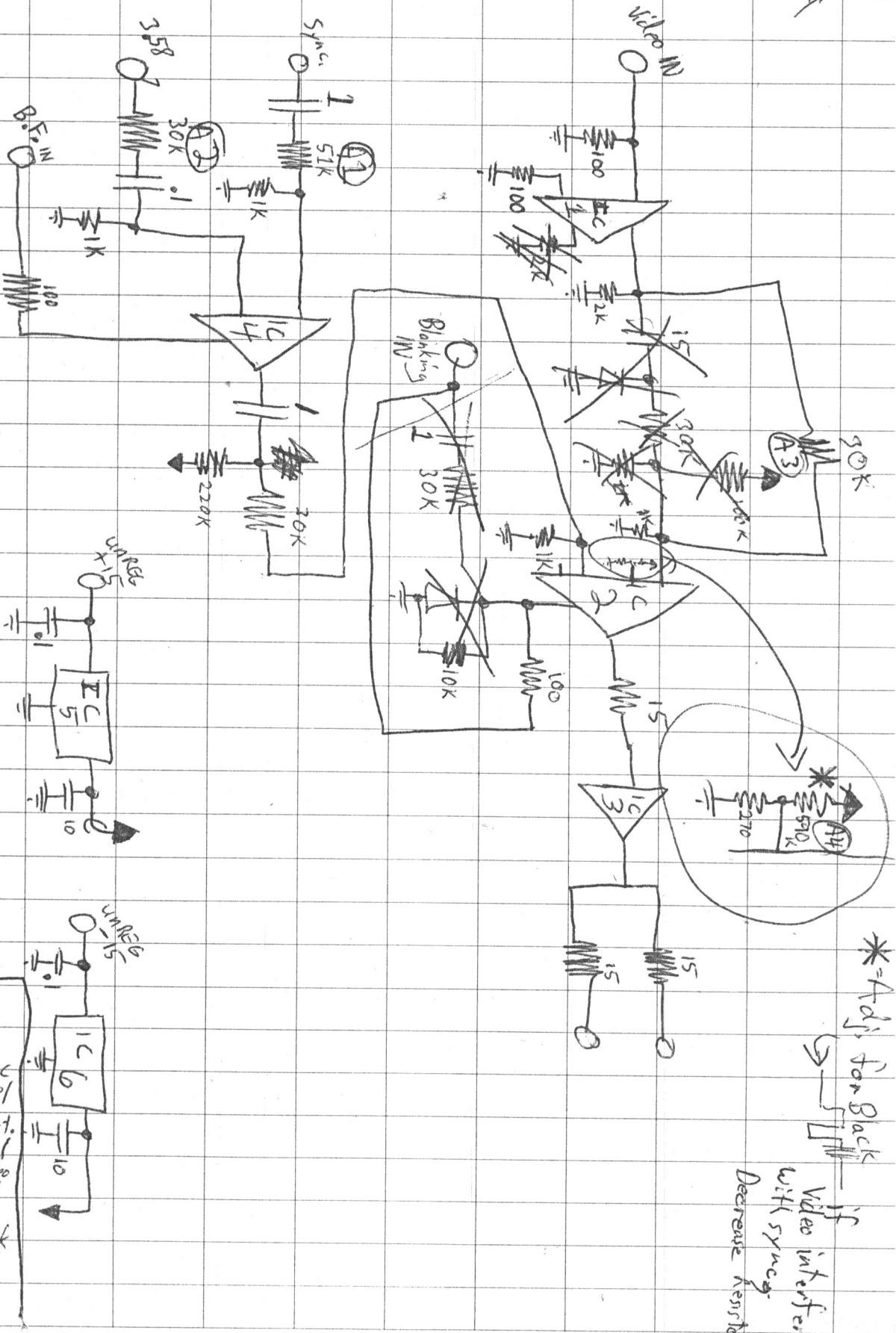
# Colonizer \*1

## Output Board

~~No good~~

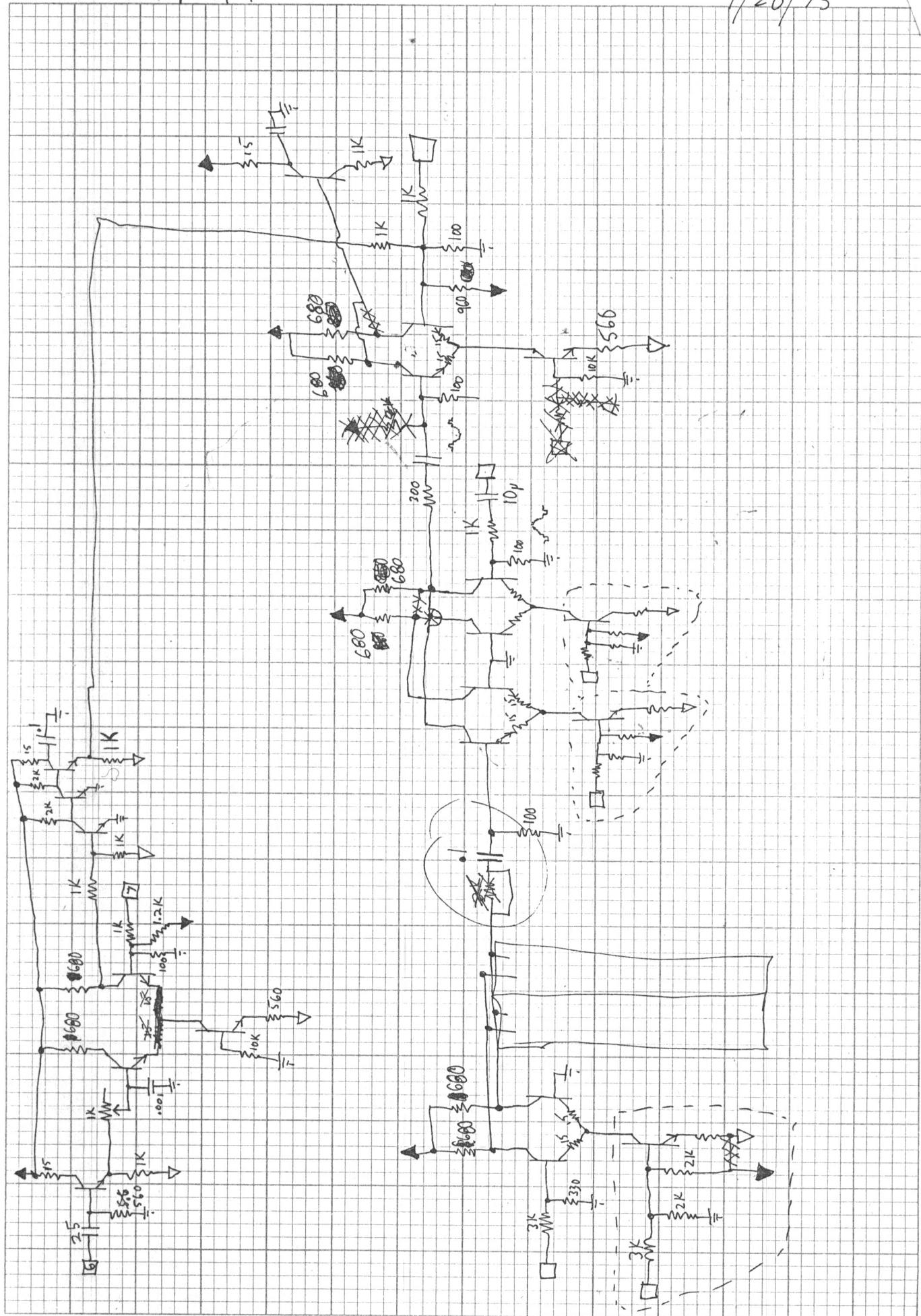
As of 1/10/75

Pins	
1	UNREQ
2	+15
3	
4	1
5	
6	
7	OUT
8	
9	OUT
10	
11	3.58
12	
13	BF
14	
15	Sync
16	
17	Blanking
18	Video IN
19	
20	UNREQ
21	-15
22	
	I C
1	1410
2	1445
3	0002
4	1445
5	340-K 5.0
6	320-K 5.2



INPUT w. filter

4/28/75

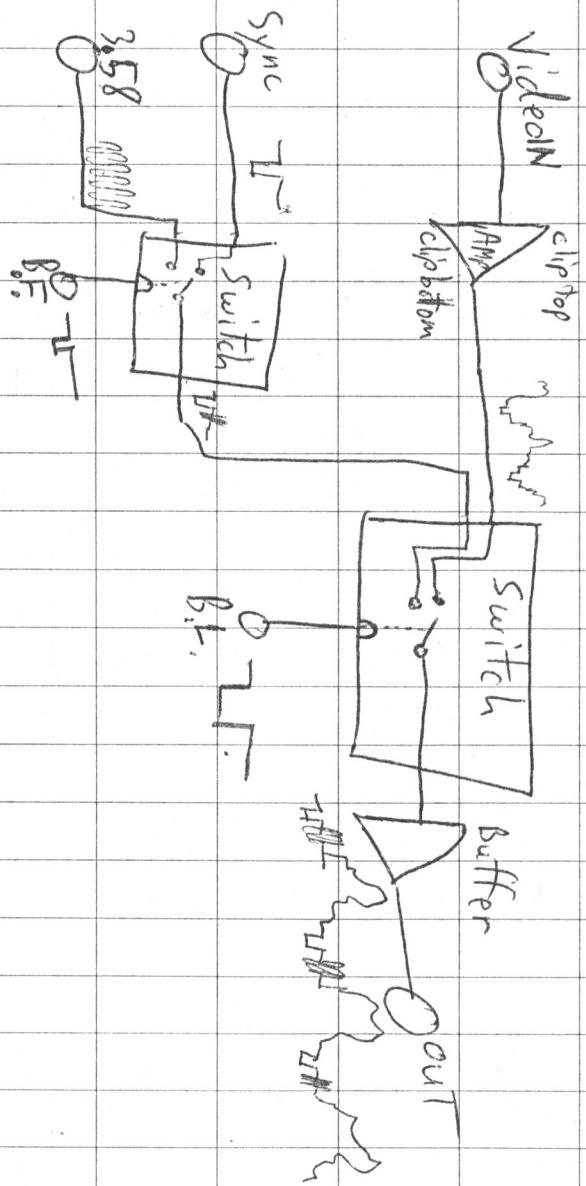


Colorizer #1

1/11/75

output Board

Logic

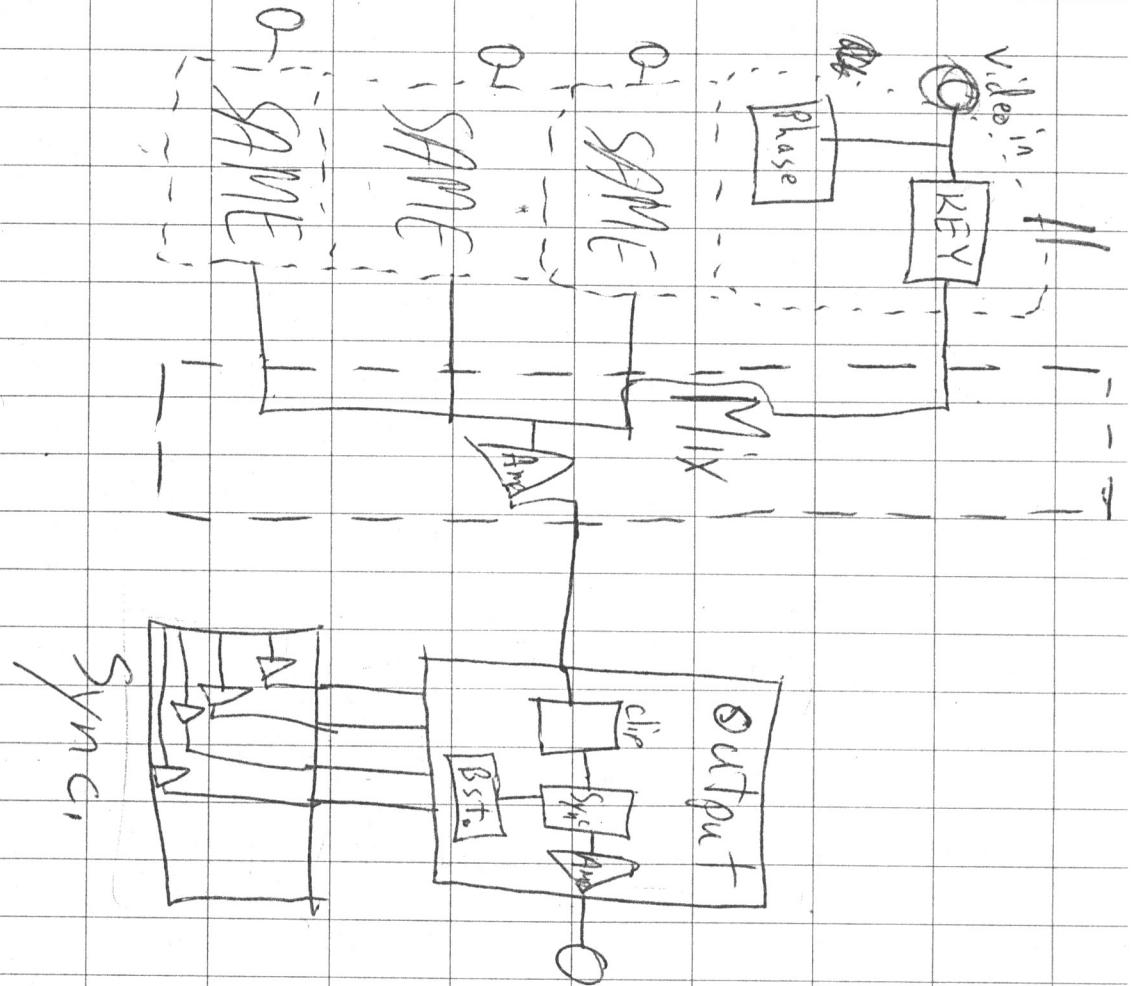


Colorizer

#

1/1/75

# Logic

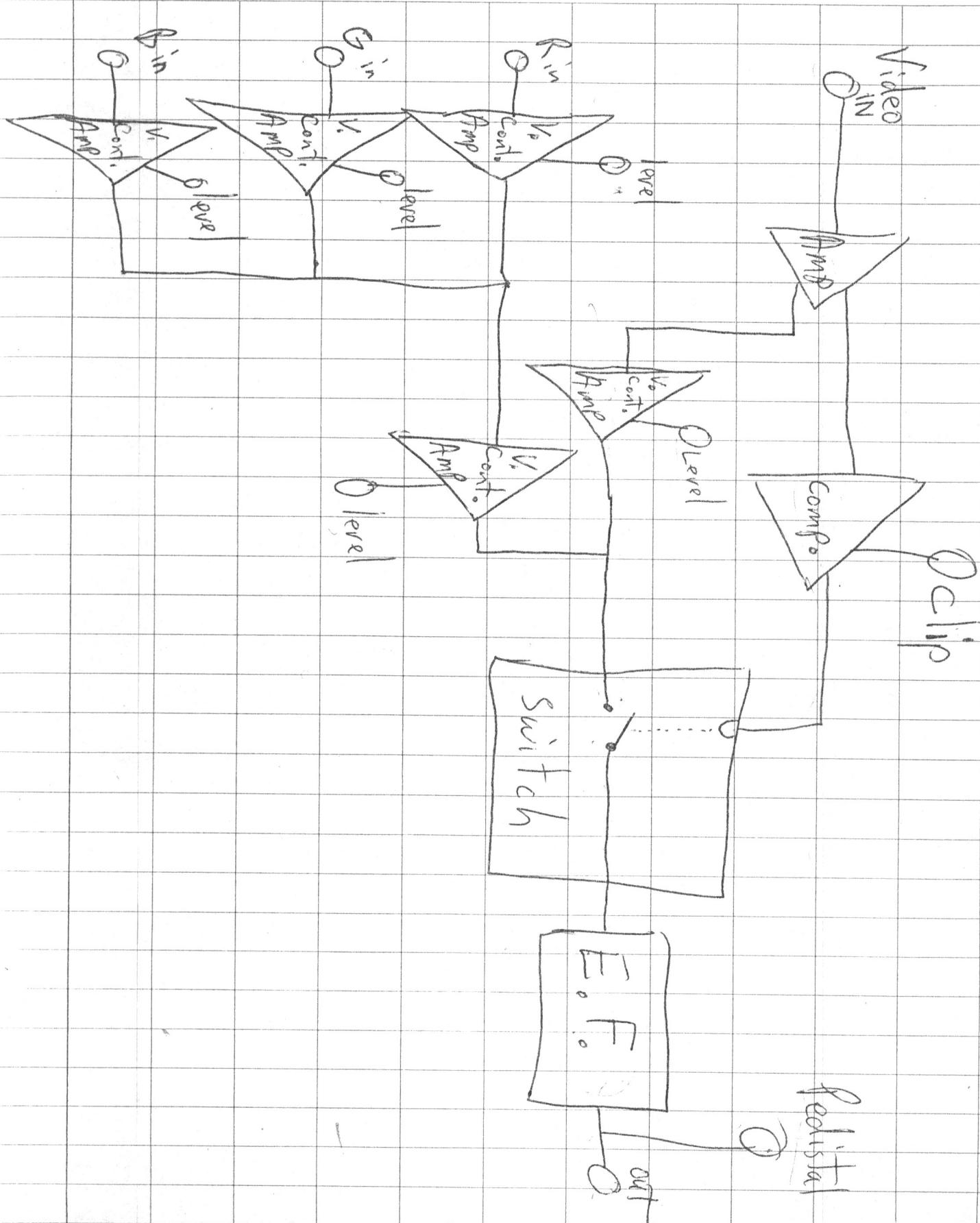


Colorizer #1

1/11/75

Input Board

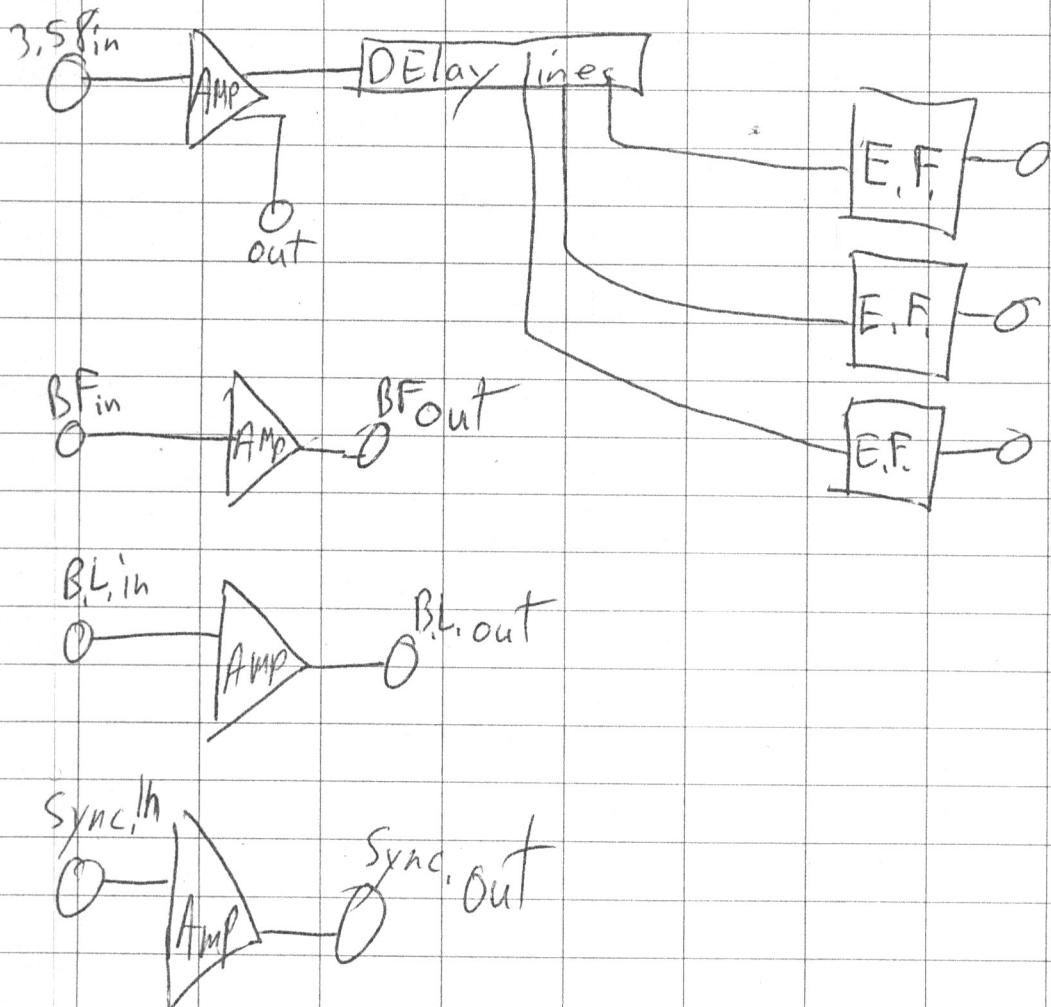
Logic

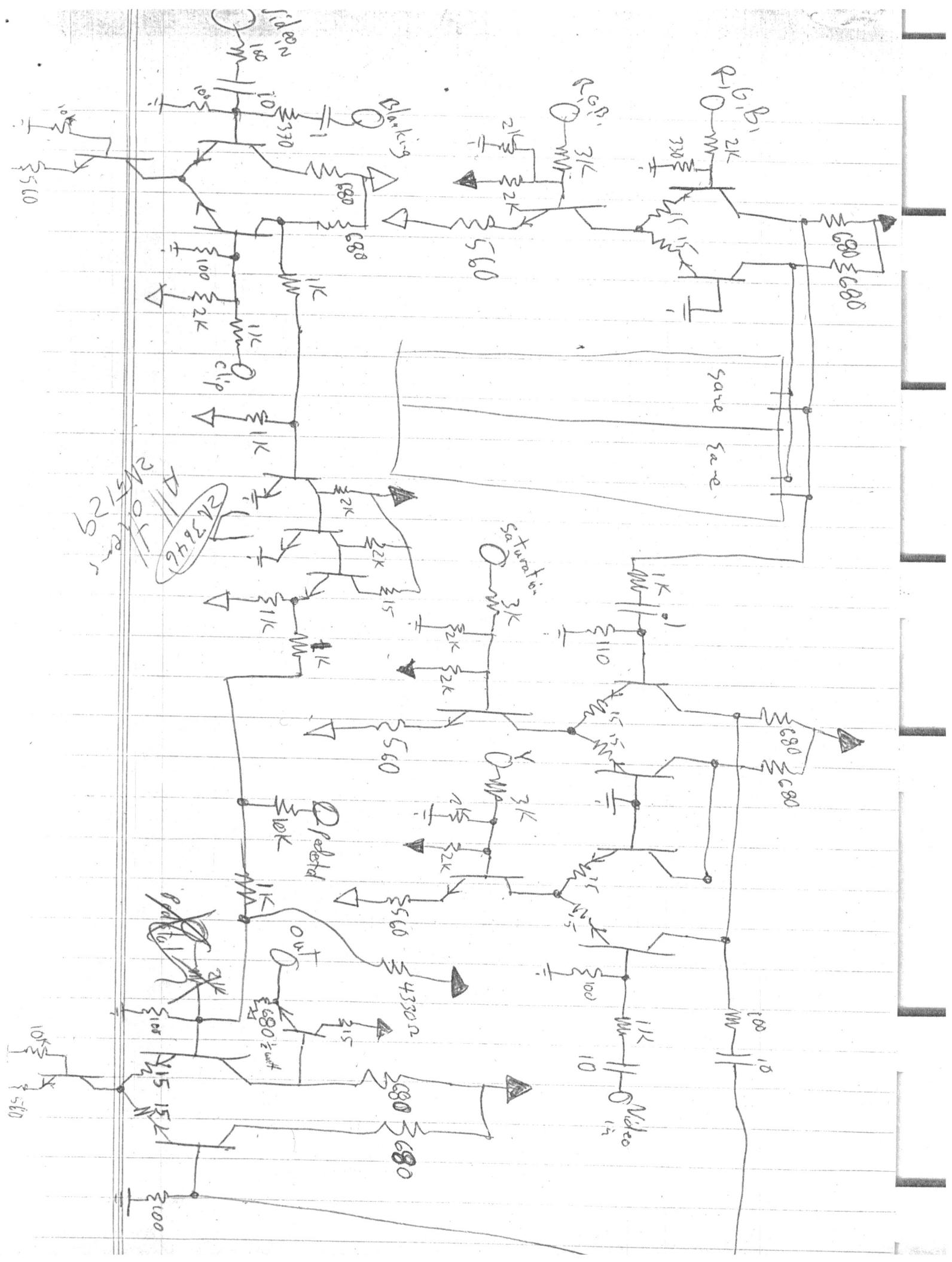


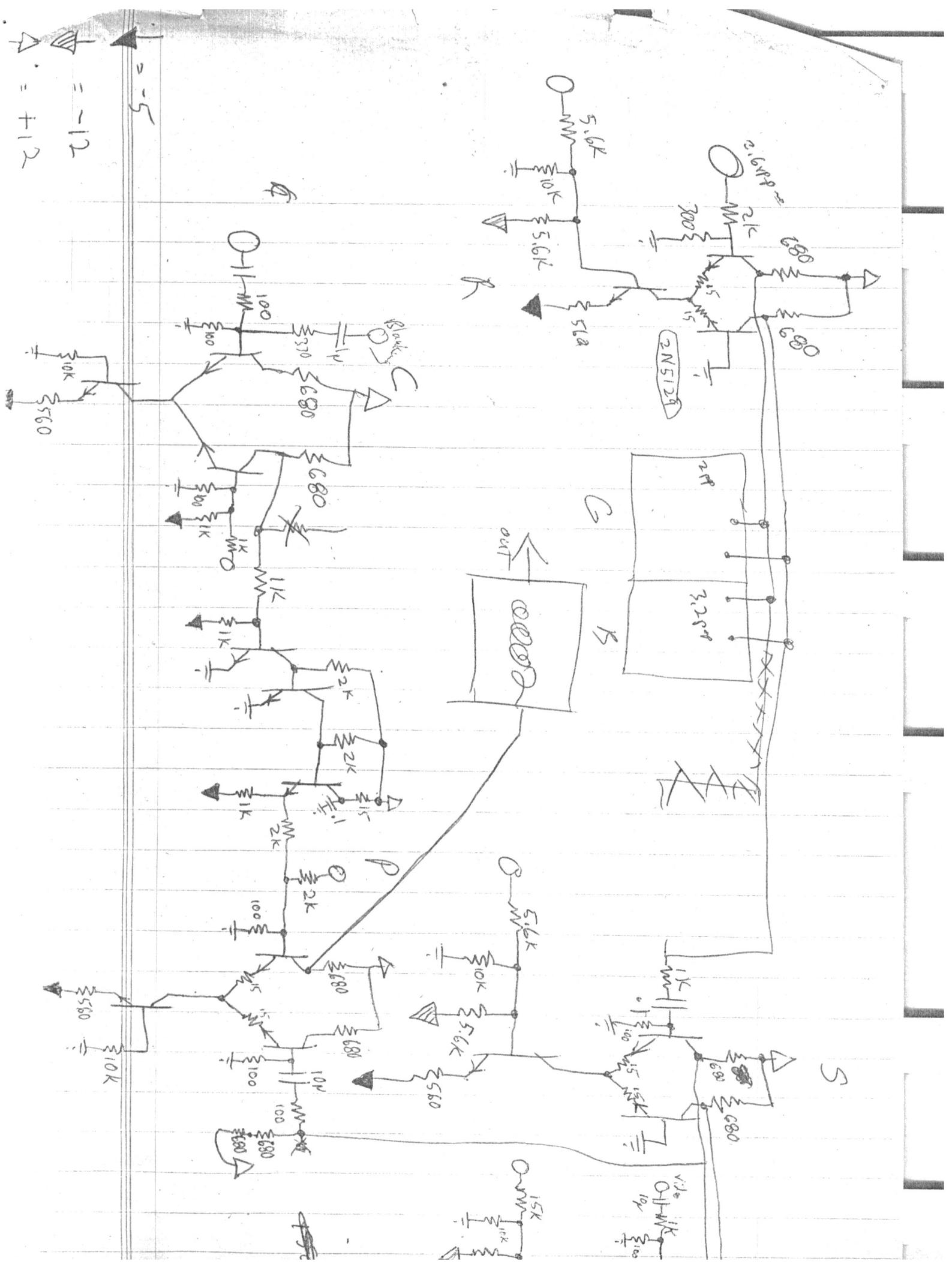
Colorizer #1

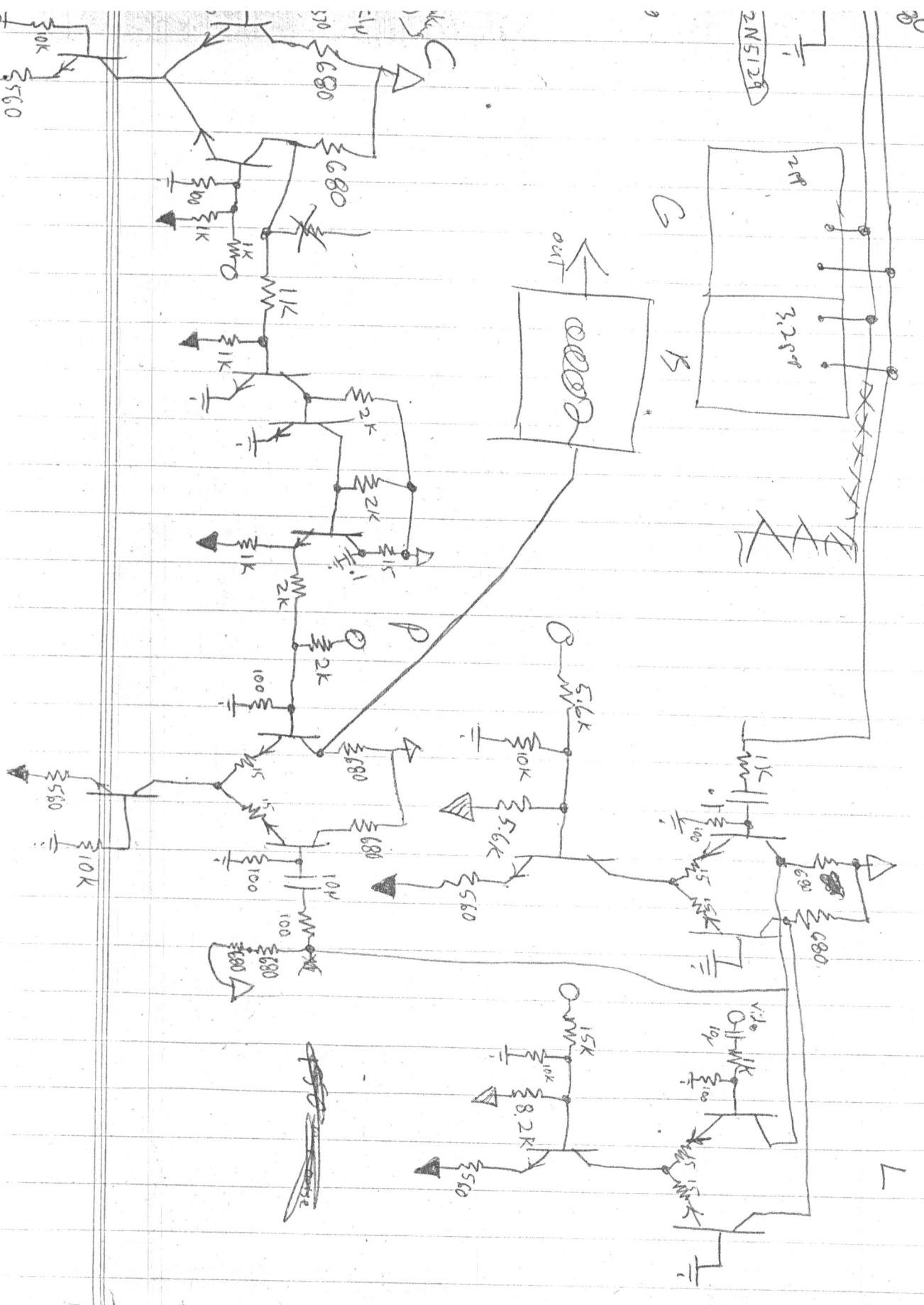
4/11/75

Sync. Board Logic







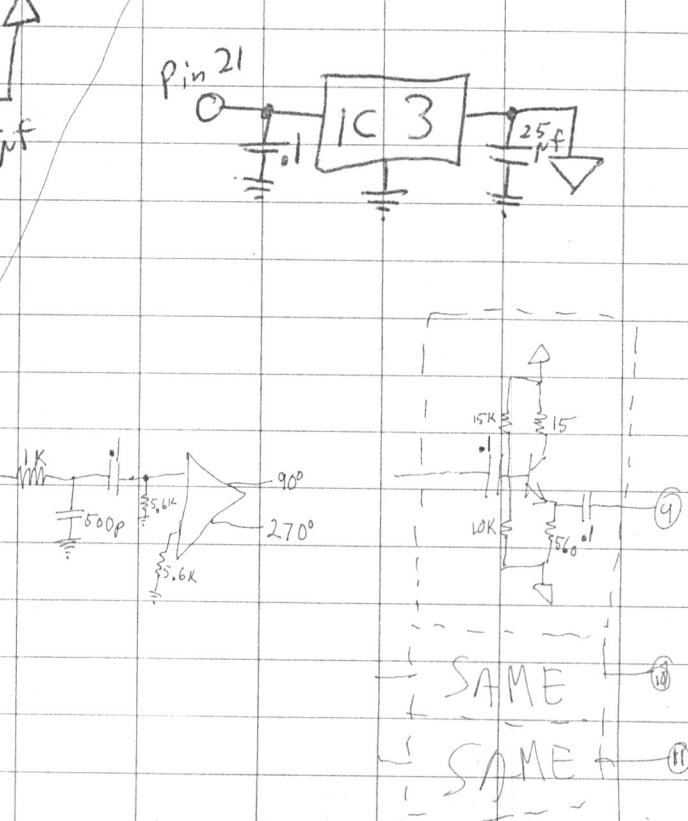
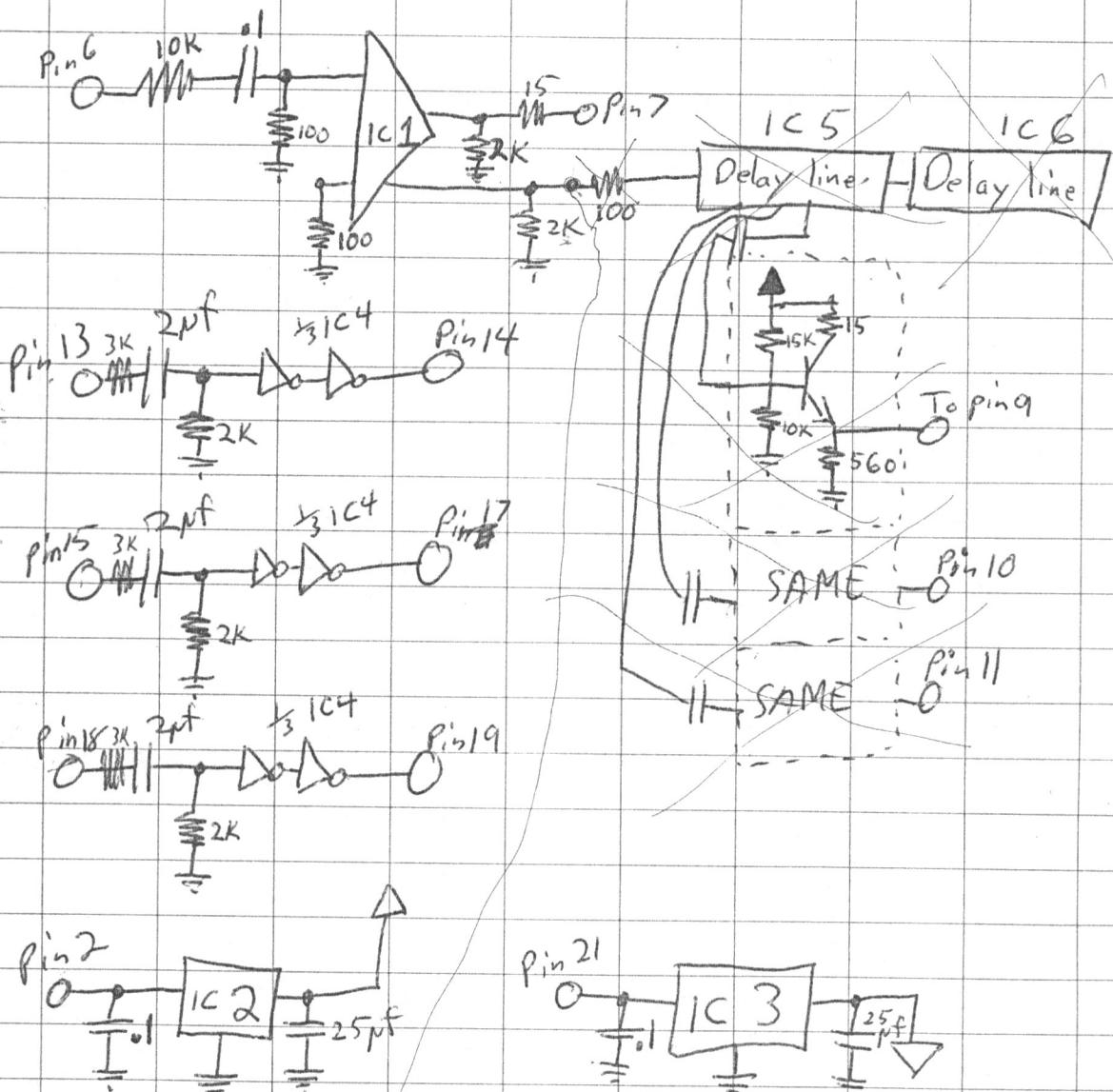


# Colorizer #1

1/11/75

## Sync. board

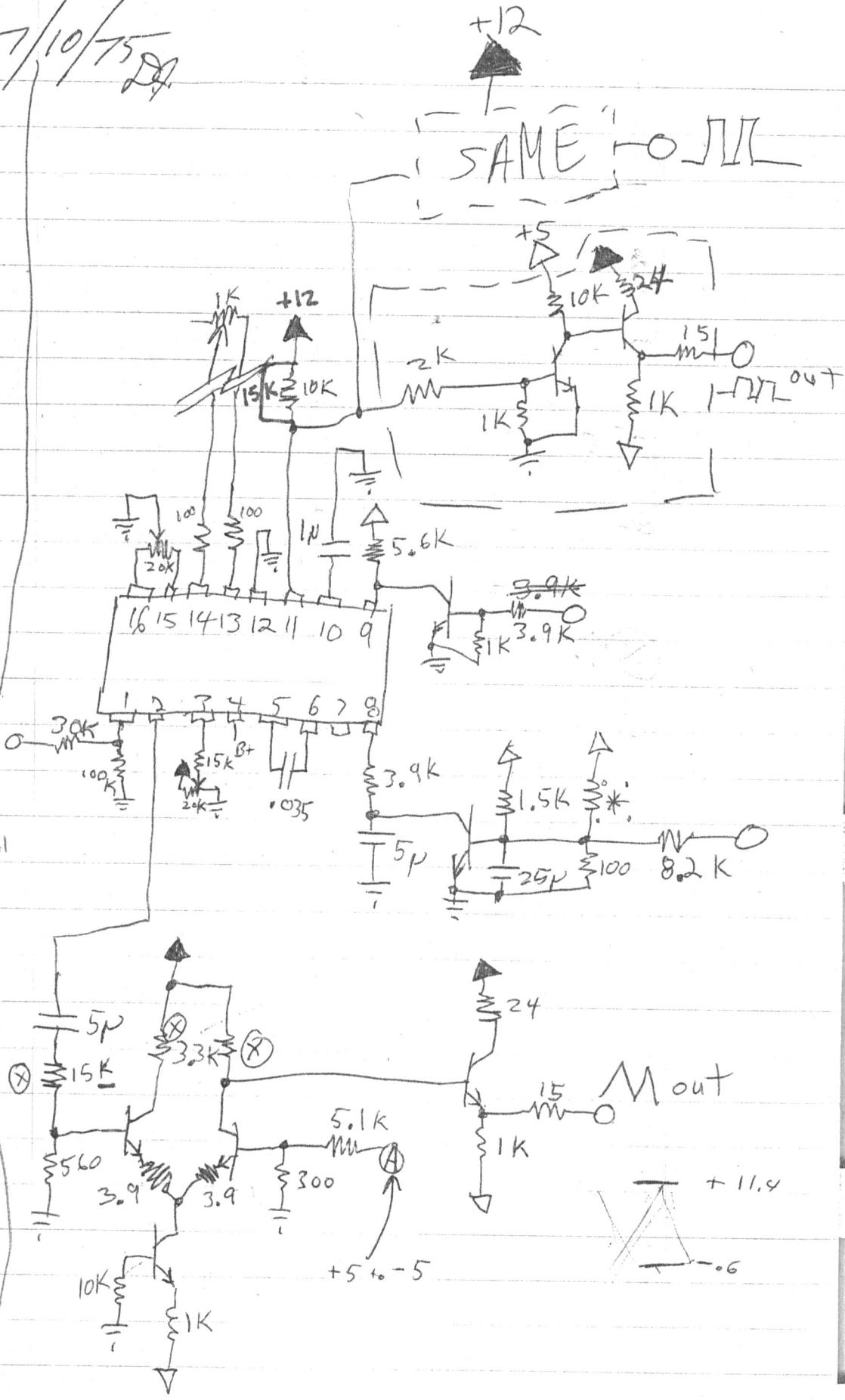
1	$\frac{1}{2}$
2	+15
3	+5
4	12
5	-5
6	3.58 in
7	3.58 to output Bd.
8	$\frac{1}{2}$
9	Red
10	Blue
11	Green
12	$\frac{1}{2}$
13	B.F. IN
14	B.F. out
15	Sync IN
16	$\frac{1}{2}$
17	Sync out
18	B.L. in
19	B.L. out
20	$\frac{1}{2}$
21	unREG -15
22	$\frac{1}{2}$
	<u>IC</u>
1	1410
2	340-5
3	320-5
4	7404
5	Rhomb Delay lines
6	Delay lines

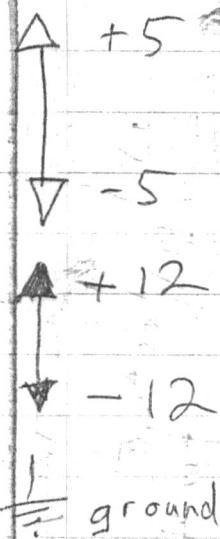


## Oscillator 2 prototype II

7/10/75 ~~20~~

Pin	
1	$\frac{1}{1}$
2	+12
3	+5
4	-5
5	(-12)
6	
7	
8	
9	
10	Freq. A
11	Control
12	Freq. B
13	input
14	FSK
15	input
16	A.M.
17	input
18	sine
19	triangle
20	out
21	out
22	5V
	out
	Ped.
	Control

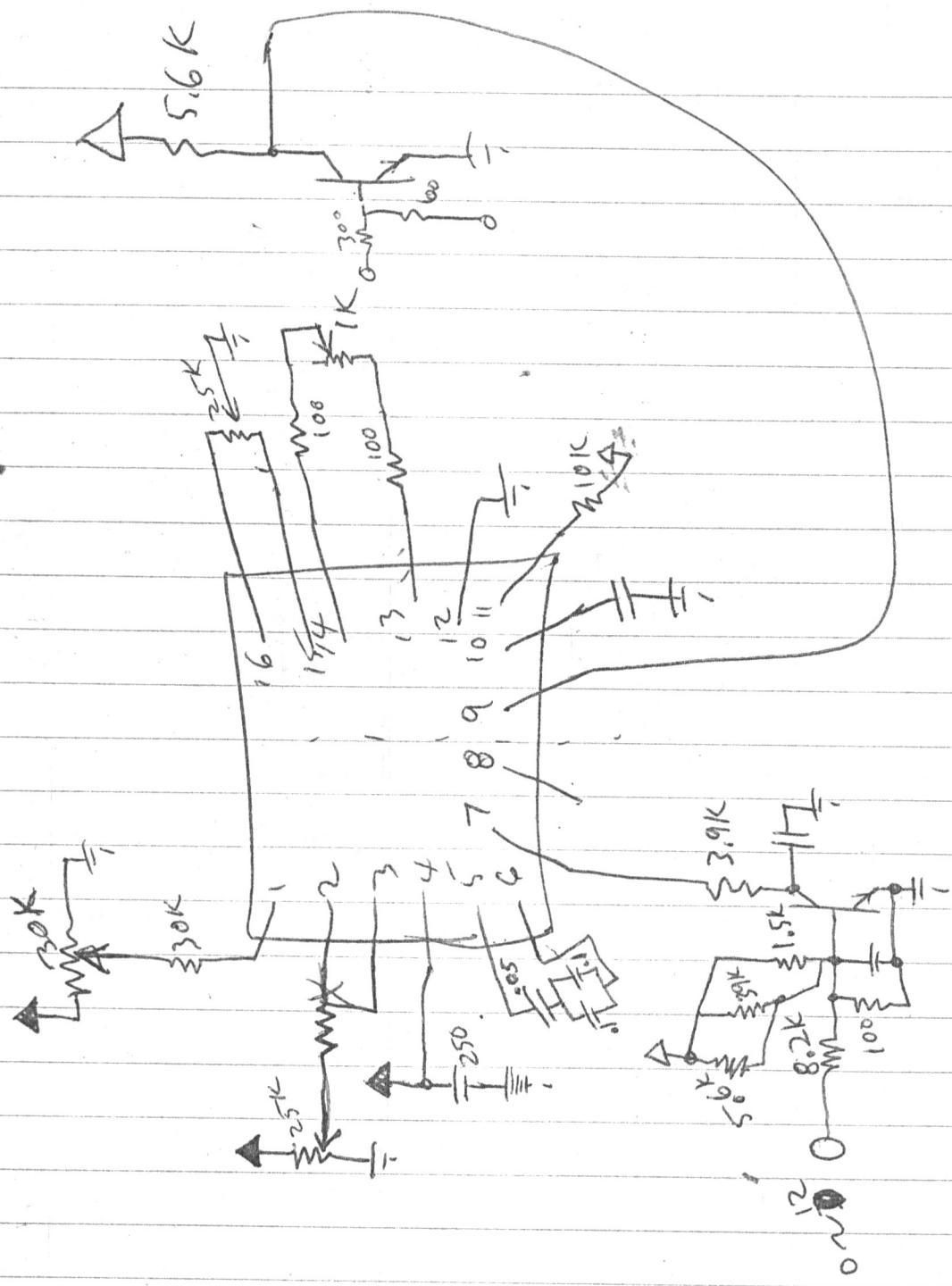




\* must be adj. for full range  
~~(if)~~

(X) might need adj.

Ⓐ  $-5 \text{ to } +5$  for ped. control



## Oscillator 2 prototype II

